

OIPE

#2

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/915,060

DATE: 08/06/2001  
 TIME: 11:05:19

Input Set : A:\ES.txt  
 Output Set : N:\CRF3\08062001\I915060.raw

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3 <110> APPLICANT: Vlaams Interuniversitair Instituut voor Biotechnol  
 5 <120> TITLE OF INVENTION: Novel internal ribosome entry site, vector containing same  
 and the uses  
 6 thereof  
 8 <130> FILE REFERENCE: 2676-4976US  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/915,060  
 C--> 10 <141> CURRENT FILING DATE: 2001-07-25  
 10 <150> PRIOR APPLICATION NUMBER: 99200216.2  
 11 <151> PRIOR FILING DATE: 1999-01-26  
 13 <160> NUMBER OF SEQ ID NOS: 51  
 15 <170> SOFTWARE: PatentIn version 3.1  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 222  
 19 <212> TYPE: DNA  
 20 <213> ORGANISM: Homo sapiens  
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 25 tcaggttctg aggaagaaga ggaggaggag gaagaggagg aggaggaagg gagcaccagt 120  
 27 gaagaatcag aggaggaaga ggaagaggag gaggaggaga ccggcagcaa ctctgaggag 180  
 29 gcatcagagc agtctgccga agaagtaagt gaggaagaaa tg 222  
 32 <210> SEQ ID NO: 2  
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 34 <212> TYPE: RNA  
 35 <213> ORGANISM: Homo sapiens  
 37 <400> SEQUENCE: 2  
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 40 ucagguucug aggaagaaga ggaggaggag gaagaggagg aggaggaagg gagcaccagu 120  
 42 gaagaaucag aggaggaaga ggaagaggag gaggaggaga ccggcagcaa cucugaggag 180  
 44 gcaucagagc agucugccga agaaguaagu gaggaagaaa ug 222  
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 48 <211> LENGTH: 2471  
 49 <212> TYPE: DNA  
 50 <213> ORGANISM: Homo sapiens  
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 53 <221> NAME/KEY: misc\_feature  
 54 <222> LOCATION: (906)..(1128)  
 55 <223> OTHER INFORMATION: The IRES-activity containing sequence  
 58 <220> FEATURE:  
 59 <221> NAME/KEY: misc\_feature  
 60 <222> LOCATION: (1)..(2471)  
 61 <223> OTHER INFORMATION: PITSLRE protein kinase (p110pitslre) (isoform alfa2-2)  
 64 <400> SEQUENCE: 3  
 65 atacaggaag tgacgatact tttggcgcg cgggttgctg tttcttctct ggctccggga 60  
 67 ccggcgcgcg cgggcgcgcg acggggcgcg gcgtagggtg ttttaactca aatgggtgat 120  
 69 gaaaaggact cttggaaagt gaaaacttta gatgaaattc ttcaggaaaa gaaacgaagg 180  
 71 aaggaacaag aggagaaagc agagataaaa cgcttaaaaa attctgatga ccgggattcc 240  
 73 aagcgggatt cccttgagga gggggagctg agagatcact gcatggagat cacaataagg 300  
 75 aactccccgt atagaagaga agactctatg gaagacagag gagaagaaga tgattctttg 360

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77 gccatcaaac caccacagca aatgtctcgg aaagaaaaag ttcacacag aaaagatgaa 420
79 aagagaaaaag agaaaaagca tgctagagtg aagaagaaaag aaagagagca cgaacgtcgg 480
81 aaacgacatc gagaagaaca ggataaagct cgccgggaat gggaaagaca gaagagaagg 540
83 gaaatggcaa gggagcattc caggagagaa aggggggaatg atggcgtgtg cctcttcagg 600
85 gaccgcttgg agcagttaga aaggaagcgg gagcgggagc gcaagatgcg ggagcagcag 660
87 aaggagcagc gggagcagaa ggagcgcgag cgccggggcg aggagcggcg caaggagcgg 720
89 gaggcccgca gggagtggtc tgcacatcac cgaacgatga gagaggacta cagcgacaaa 780
91 gtgaaagcca gccactggag tcgcagcccc cctcgccgc cgccgggagcg gttcgagttg 840
93 ggagacggcc ggaagccagt aaaagaagag aaaatggaag aaagggacct gctgtccgac 900
95 ttacaggaca tcagcgacag cgagaggaag accagctcgg ccgagtcctc gtcagcagaa 960
97 tcaggctcag gttctgagga agaagaggag gaggaggaag aggaggagga ggaaggagc 1020
99 accagtgaag aatcagagga ggaagaggaa gaggagagg aggagaccgg cagcaactct 1080
101 gaggaggcat cagagcagtc tgccgaagaa gtaagtgagg aagaaatgag tgaagatgaa 1140
103 gaacgagaaa atgaaaacca cctcttggtt gttccagagt caggttcga ccgagattcc 1200
105 ggggagagtg aagaagcaga ggaagaagtg ggtgagggaa cgccgcagag cagcgccctg 1260
107 acagagggcg actatgtgcc cgactcccc cccctgtcgc ccacgagct caagcaggag 1320
109 ctgccaagt acctgccggc cctgcagggc tgccggagcg tcgaggagtt ccagtgcctg 1380
111 aacaggatcg aggagggcac ctatggagtg gtctacagag caaaagacaa gaaaacagat 1440
113 gaaattgtgg ctctaaagcg gctgaagatg gagaaggaga aggagggctt cccgatcacg 1500
115 tcgctgaggg agatcaacac catcctcaag gccagcatc ccaacatcgt caccgttaga 1560
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125 gggctggcgc gggagtagcg atccccctc aaggectaca ccccggtcgt ggtgaccctg 1860
127 tggtagcgcg cccagagct gctgcttggt gccaggaat actccacggc cgtggacatg 1920
129 tggtagtggt gttgcatctt cggggagctg ctgactcaga agcctctgtt ccccggaag 1980
131 tcagaaatcg atcagatcaa caaggtgttc aaggatctgg ggaccctag tgagaaaatc 2040
133 tggcccggt acagcgagct cccagcagtc aagaagatga ccttcagcag acaccctac 2100
135 aacaacctcc gcaagcgctt cggggctctg ctctcagacc agggcttcga cctcatgaac 2160
137 aagttcctga cctacttccc cgggaggagg atcagcgctg aggacggcct caagcatgag 2220
139 tatttccgag agacccccct ccccatcgac cctccatgt tccccacgtg gcccgccaag 2280
141 agcagcagc agcgtgtgaa gcggggcacc agcccgaggc cccctgaggg aggcctgggc 2340
143 tacagccagc tgggtgacga cgacctgaag gagacgggct tccaccttac caccacgaac 2400
145 cagggggcct ctgccgcggg ccccggttc agcctcaagt tctgaaggtc agagtggacc 2460
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151 <211> LENGTH: 30
152 <212> TYPE: DNA
153 <213> ORGANISM: Homo sapiens
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159 <210> SEQ ID NO: 5
160 <211> LENGTH: 468
161 <212> TYPE: DNA
162 <213> ORGANISM: Homo sapiens
164 <400> SEQUENCE: 5 60
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167 cagaagagaa gggaaatggc aaggagcat tccaggagag aaagggggaa tgatggcgtg

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169 tgcctcttca gggaccgctt ggagcagtta gaaaggaagc gggagcggga gcgcaagatg 180
171 cgggagcagc agaaggagca gcgggagcag aaggaagcgc agcggcgggc ggaggagcgg 240
173 cgcaaggagc gggaggcccg cagggaagtg tctgcacatc accgaacgat gagagaggac 300
175 tacagcgaca aagtgaagc cagccactgg agtcgcagcc cgcctcggcc gccgcgggag 360
177 cggttcgagt tgggagacgg ccggaagcca gtaaaagaag agaaatgga agaaagggac 420
179 ctgctgtccg acttacagga catcagcgac agcgagagga agaccagg 468
182 <210> SEQ ID NO: 6
183 <211> LENGTH: 660
184 <212> TYPE: DNA
185 <213> ORGANISM: Homo sapiens
187 <400> SEQUENCE: 6
188 cacgaacgtc ggaaacgaca tcgagaagaa caggataaag ctgcgcggga atgggaaaga 60
190 cagaagagaa gggaaatggc aaggagcagc tccaggagag aaagggggaa tgatggcgtg 120
192 tgcctcttca gggaccgctt ggagcagtta gaaaggaagc gggagcggga gcgcaagatg 180
194 cgggagcagc agaaggagca gcgggagcag aaggagcgcg agcggcgggc ggaggagcgg 240
196 cgcaaggagc gggaggcccg cagggaagtg tctgcacatc accgaacgat gagagaggac 300
198 tacagcgaca aagtgaagc cagccactgg agtcgcagcc cgcctcggcc gccgcgggag 360
200 cggttcgagt tgggagacgg ccggaagcca gtaaaagaag agaaaatgga agaaagggac 420
202 ctgctgtccg acttacagga catcagcgac agcgagagga agaccagctc ggccgagtcc 480
204 tcgtcagcag aatcaggctc aggttctgag gaagaagagg aggaggagga agaggaggag 540
206 gaggaagggg gcaccagtga agaatcagag gaggaagagg aagaggagga ggaggagacc 600
208 ggcagcaact ctgaggaggc atcagagcag tctgccgaag aagtaagtga ggaagaaatg 660
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212 <211> LENGTH: 38
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence ✓
216 <220> FEATURE:
217 <223> OTHER INFORMATION: 5' primer ✓
219 <400> SEQUENCE: 7
220 tgctctagag gaattcgaag tgacgatact tttggcgc 38
223 <210> SEQ ID NO: 8
224 <211> LENGTH: 42
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: 3' primer
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237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
240 <220> FEATURE:
241 <223> OTHER INFORMATION: in frame NotI
243 <400> SEQUENCE: 9
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247 <210> SEQ ID NO: 10
248 <211> LENGTH: 21
249 <212> TYPE: DNA

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250 <213> ORGANISM: Artificial Sequence
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267 <400> SEQUENCE: 11
268 gacagcgaga aagaccagct cg
271 <210> SEQ ID NO: 12
272 <211> LENGTH: 35
273 <212> TYPE: DNA
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: 5'-end primer
279 <400> SEQUENCE: 12
280 ctagtctaga aaagtgaaaa cttagatga aattc
283 <210> SEQ ID NO: 13
284 <211> LENGTH: 34
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: 3'-end primer
291 <400> SEQUENCE: 13
292 tgcattgccat gcatgtcgtt tccgacgttc gtgc
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296 <211> LENGTH: 35
297 <212> TYPE: DNA
298 <213> ORGANISM: Artificial Sequence
300 <220> FEATURE:
301 <223> OTHER INFORMATION: 3'-end primer
303 <400> SEQUENCE: 14
304 tgcattgccat ggtcctctct catcgttcgg tgatg
307 <210> SEQ ID NO: 15
308 <211> LENGTH: 31
309 <212> TYPE: DNA
310 <213> ORGANISM: Artificial Sequence
312 <220> FEATURE:
313 <223> OTHER INFORMATION: 5'-end primer
315 <400> SEQUENCE: 15
316 gcacgaacgt cggaacgac atctagacta g
319 <210> SEQ ID NO: 16
320 <211> LENGTH: 35
321 <212> TYPE: DNA
322 <213> ORGANISM: Artificial Sequence

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324 <220> FEATURE:  
325 <223> OTHER INFORMATION: 5'-end primer antisense 35  
327 <400> SEQUENCE: 16  
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331 <210> SEQ ID NO: 17  
332 <211> LENGTH: 32  
333 <212> TYPE: DNA  
334 <213> ORGANISM: Artificial Sequence  
336 <220> FEATURE:  
337 <223> OTHER INFORMATION: 5'-end primer sense 32  
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344 <211> LENGTH: 40  
345 <212> TYPE: DNA  
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357 <212> TYPE: DNA  
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361 <223> OTHER INFORMATION: double-stranded oligonucleotide ✓ 26  
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368 <211> LENGTH: 26  
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384 <220> FEATURE:  
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393 <212> TYPE: RNA  
394 <213> ORGANISM: Artificial Sequence  
396 <220> FEATURE:

8/6/01

VERIFICATION SUMMARY  
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Input Set : A:\ES.txt  
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L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

8/6/01